

Claims

1. A method for water mediated extraction of analytes from a sample, said method comprising,
dynamically contacting an analyte containing sample with water below 100 degrees Celsius and at a regulated pressure from about 10 to about 30 bar.
2. The method of claim 1 wherein said water has a temperature above about 30 but below 100 degrees Celsius.
3. The method of claim 1 wherein said water contains an amount of at least one organic solvent.
4. The method of claim 1 wherein said regulated pressure is from about 10 to about 25 bar.
5. The method of claim 1 wherein said temperature is about 95 degrees Celsius.
6. The method of claim 1 wherein the pressure is selected from 10, 15, 20, or 25 bar.
7. The method of claim 1 wherein said sample comprises a dispersant.
8. The method of claim 8 wherein said dispersant is selected from sand and glass beads.
9. The method of claim 1 wherein said contacting occurs for between about 5 and about 200 minutes.
10. The method of claim 1 wherein said contacting occurs for about 20 to about 40 minutes.

AMENDED CLAIMS

[Received by the International Bureau on 02 August 2002 (02.08.02);
amended claim 20 added, remaining claims unchanged (1 page)]

11. The method of claim 3 wherein said organic solvent is ethanol at a concentration of less than 50%.
12. The method of claim 11 wherein the concentration is selected from 5%, 10%, 15%, 20%, 25%, and 30%.
13. The method of claim 1 wherein the sample is selected from a botanical or herbal preparation.
14. The method of claim 1 wherein said analytes include at least one analyte selected from berberine, baicalein and glycyrrhizin.
15. The method of claim 1 further comprising detection of said analytes.
16. The method of claim 1 wherein the dynamically contacting is at a flow rate of about 1 ml/min solvent.
17. A method of analyzing analytes extracted from a sample comprising the method of claim 1 further comprising analysis of said analytes by a technique selected from the group consisting of gas chromatography, mass spectrometry, ion chromatography, liquid chromatography and capillary electrophoresis.
18. The method of claim 1 wherein said water contains one or more surfactant or detergent.
19. The method of claim 1 wherein said water contains a detergent selected from sodium dodecyl sulfate and Triton X-100.
20. The method of claim 19 wherein said detergent is sodium dodecyl sulfate.